Town of Springerville
Consumer Confidence Report for Calendar Year 20FI

ADEQ Arizona Department of Environmental Quality

Consumer Confidence Report for Calendar Year 2019

Este informe contiene información muy importante sobre el aqua usted bebe.
Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System ID Number	Public Water System Name	
AZ04- 01-013	Town of Springerville	
Contact Name and Title	**Phone Number**	**E-mail Address**
Tim Rasmussen Public Works Director	928-333-5016	trasmussen@springerville.az.gov

We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact TOWN HALL at 928-333-2656 for additional opportunity and meeting dates and times.

Drinking Water Sources

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source(s): Wells

Consecutive Connection Sources [X] *Check here if this section does not apply to this system*

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table.

PWS # AZ04-_____, **provides us a consecutive connection source of water.**

Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

Inorganic Contaminants: Such as salts and metals that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

Organic Chemical Contaminants: Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.

Lead Informational Statement: *(Applies to All Water Systems, please do not remove even if your system did not detect any Lead)*

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Water Quality Data – Regulated Contaminants

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination
E. Coli	N	0		0	0	Human and animal fecal waste
Fecal Indicator (From GWR source) (coliphage, enterococci and/or E. coli)				0	0	Human and animal fecal waste
Surface Water Treatment Rule	**TT Violation Y or N**	**Highest Level Detected**	**% Range (Low-High)**	**TT**	**Sample Month & Year**	**Likely Source of Contamination**
Total Organic Carbon[1] (mg/L)				TT		Naturally Present in the Environment
Turbidity[2] (NTU)				TT		Soil runoff

[1] **Total organic carbon (TOC)** has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

[2] **Turbidity** is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)				4	0		Water additive used to control microbes
Chlorine dioxide (ppb) if treated with CLO2				800	0		Water additive used to control microbes
Disinfection By-Products	**MCL Violation Y or N**	**Running Annual Average (RAA) OR Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Month & Year**	**Likely Source of Contamination**
Haloacetic Acids (HAA5) (ppb)				60	N/A		Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)				80	N/A		Byproduct of drinking water disinfection
Bromate (ppb) if treated with Ozone				10	0		Byproduct of drinking water disinfection
Chlorite (ppm) if treated with CLO2				1	0.8		Byproduct of drinking water disinfection
Lead & Copper	**MCL Violation Y or N**	**90th Percentile**	**Number of Samples Exceeds AL**	**AL**	**ALG**	**Sample Month & Year**	**Likely Source of Contamination**
Copper (ppm)	N	0.048	0	1.3	1.3	8-19	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	0.0012	0	15	0	8-19	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	**MCL Violation Y or N**	**Running Annual Average (RAA) OR Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Month & Year**	**Likely Source of Contamination**
Beta/Photon Emitters (mrem/yr.)				4	0		Decay of natural and man-made deposits
Alpha Emitters (pCi/L) (This is Gross Alpha 4000)	N	5.6	3.2-5.8	15	0	8-19	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L)	Y	8.1	2.5-8.1	5	0	8-19	Erosion of natural deposits
Uranium (ug/L)				30	0		Erosion of natural deposits
Inorganic Chemicals (IOC)	**MCL Violation Y or N**	**Running Annual Average (RAA) OR Highest Level**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Month & Year**	**Likely Source of Contamination**
		Detected					
Antimony (ppb)				6	6		Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic[1] (ppb)	N	0.0043	0.0015-0.0043	10	0	8-19	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)				7	7		Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	0.36	0.18-0.36	2	2	8-19	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	0.001	0.001	4	4	8-19	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	0.0005	0.0005	5	5	8-19	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	0.001	0.001	100	100	8-19	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	N	0.025	0.025	200	200	8-19	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	0.63	0.45-0.63	4	4	8-19	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	0.0002	0.0002	2	2	8-19	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	N	1.5	0.1-1.5	10	10	8-19	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite[2] (ppm)				1	1		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	N	0.005	0.005	50	50	8-19	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)				N/A	N/A		Erosion of natural deposits
Thallium (ppb)	N	0.001	0.001	2	0.5	8-19	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

[1] **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

[2] **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)	N	0.001		70	70	8-19	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)	N	0.0002		50	50	8-19	Residue of banned herbicide
Acrylamide				TT	0		Added to water during sewage / wastewater treatment
Alachlor (ppb)	N	0.0001	0.0001	2	0	8-19	Runoff from herbicide used on row crops
Atrazine (ppb)	N	0.00005		3	3	8-19	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N	0.00002		200	0	8-19	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	N	0.0005		40	40	8-19	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	N	0.0001	0.0001	2	0	8-19	Residue of banned termiticide
Dalapon (ppb)	N	0.001		200	200	8-19	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N	0.0006		400	400	8-19	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)	N	0.0006		6	0	8-19	Discharge from rubber and chemical factories
Dibromochloropropane (ppt)	N	0.00001	0.00001	200	0	8-19	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	N	0.0002		7	7	8-19	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	N	0.0004		20	20	8-19	Runoff from herbicide use
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)	N	0.0000005		30	0	8-19	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall (ppb)	N	0.005		100	100	8-19	Runoff from herbicide use
Endrin (ppb)	N	0.00001	0.00001	2	2	8-19	Residue of banned insecticide
Epichlorohydrin				TT	0		Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide (ppt)	N	0.00001	0.00001	50	0	8-19	Discharge from petroleum refineries
Glyphosate (ppb)	N	0.006		700	700	8-19	Runoff from herbicide use
Heptachlor (ppt)	N	0.00001	0.00001	400	0	8-19	Residue of banned termiticide
Heptachlor epoxide (ppt)	N	0.00001	0.00001	200	0	8-19	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N	0.0003		1	0	8-19	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene (ppb)	N	0.00005		50	50	8-19	Discharge from chemical factories
Lindane (ppt)	N	0.00001	0.00001	200	200	8-19	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	0.00005	0.00005	40	40	8-19	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb)	N	0.0005		200	200	8-19	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)				500	0		Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)				1	0		Discharge from wood preserving factories
Picloram (ppb)	N	0.0001		500	500	8-19	Herbicide runoff
Simazine (ppb)	N	0.00005		4	4	8-19	Herbicide runoff
Toxaphene (ppb)	N	0.0005	0.0005	3	0	8-19	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	**MCL Violation Y or N**	**Running Annual Average (RAA) OR Highest Level Detected**	**Range of All Samples (Low-High)**	**MCL**	**MCLG**	**Sample Month & Year**	**Likely Source of Contamination**
Benzene (ppb)	N	0.0005		5	0	8-19	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	N	0.0005		5	0	8-19	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	N	0.0005		100	100	8-19	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	N	0.0005		600	600	8-19	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	0.0005		75	75	8-19	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	N	0.0005		5	0	8-19	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	0.0005		7	7	8-19	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	0.0005		70	70	8-19	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	0.0005		100	100	8-19	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	0.0005		5	0	8-19	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	N	0.0005		5	0	8-19	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	0.0005		700	700	8-19	Discharge from petroleum refineries
Styrene (ppb)	N	0.0005		100	100	8-19	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	N	0.0005		5	0	8-19	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	0.0005		70	70	8-19	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	N	0.0005		200	200	8-19	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	N	0.0005		5	3	8-19	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	0.0005		5	0	8-19	Discharge from metal degreasing sites and other factories
Toluene (ppm)	N	0.0005		1	1	8-19	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	0.0003		2	0	8-19	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	N	0.0005		10	10	8-19	Discharge from petroleum or chemical factories

Water Quality Table - Unregulated Contaminants [ ] *Check here if this section does not apply to this system*

Metals	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
Germanium (ppt)				300	Naturally-occurring element; commercially available in combination with other elements and minerals; a byproduct of zinc ore processing; used in infrared optics, fiber-optic systems, electronics and solar applications
Manganese (ppt)				400	Naturally-occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical; essential nutrient
Pesticides	**Detected (Y/N)**	**Average**	**Range of All Samples (Low-High)**	**MRL**	**Likely Source of Contamination**
Alpha-hexachlorocyclohexane (ppt)				10	Component of benzene hexachloride (BHC); formerly used as an insecticide
Chlorpyrifos (ppt)				30	Organophosphate; used as an insecticide, acaricide and miticide
Dimethipin (ppt)			W	200	Used as an herbicide and plant growth regulator
Ethoprop (ppt)				30	Used as an insecticide
Oxyfluorfen (ppt)				50	Used as an herbicide
Profenofos (ppt)				300	Used as an insecticide and acaricide
Tebuconazole (ppt)				200	Used as a fungicide
Total permethrin (cis- & trans-) (ppt)				40	Used as an insecticide
Pesticides Manufacturing By-Product	**Detected (Y/N)**	**Average**	**Range of All Samples (Low-High)**	**MRL**	**Likely Source of Contamination**
Tribufos (ppt)				700	Used as an insecticide and cotton defoliant Water additive used to control microbes
Alcohols	**Detected (Y/N)**	**Average**	**Range of All Samples (Low-High)**	**MRL**	**Likely Source of Contamination**
1-butanol (ppb)				2.0	Used as a solvent, food additive and in production of other chemicals
2-methoxyethanol (ppt)				400	Used in a number of consumer products, such as synthetic cosmetics, perfumes, fragrances, hair preparations and skin lotions
2-propen-1-ol (ppt)				500	Used in the production flavorings, perfumes and other chemicals
Semivolatile Chemicals	**Detected (Y/N)**	**Average**	**Range of All Samples (Low-High)**	**MRL**	**Likely Source of Contamination**
Butylated hydroxyanisole (ppt)				30	Used as a food additive (antioxidant)
O-toluidine (ppt)				7	Used in the production of dyes, rubber, pharmaceuticals and pesticides
Quinolone (ppt)				20	Used as a pharmaceutical (anti-malarial) and flavoring agent; produced as a chemical intermediate; component of coal

Surface Water Monitoring & Violations [X] *Check here if this section does not apply to this system*

Cryptosporidium was detected in the finished water or source water. We detected *Cryptosporidium* in of our samples tested. If *Cryptosporidium* is found at greater than 0.075 oocyst per liter, we have to provide additional treatment. We believe it is important for you to know that *Cryptosporidium* may cause serious illness in immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders. These people should seek advice from their health care providers.

Health Effects Language:

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions
(*Example*: Reporting failure)	(*Example*: Forgot to sample for RTCR)	(*Example*: 14 days)	(*Example*: Sent in May results to show that the system is not serving contaminated water)
RTCR	Sampler Error	8-19, 11-19	Re-Sample

Assessments for the Revised Total Coliform Rule (RTCR) [ ] *Check here if this section does not apply to this system*

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. If coliform is found, then the system is responsible to look for potential problems in water treatment or distribution. When this occurs, the water system is required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

- During the past year, we were required to conduct Level 1 assessment(s). Level 1 assessment(s) were completed. In addition, we were required to take corrective actions and we completed of these actions.
- During the past year, we were required to conduct Level 2 assessment(s). Level 2 assessment(s) were completed. In addition, we were required to take corrective actions and we completed of these actions.

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. If *E. coli* bacteria is found, the water system is required to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

- During the past year, we were required to complete Level 2 assessment(s) because we found *E. coli* in our water system. In addition, we were required to take corrective actions and we completed of these actions.

Failure to Conduct Assessments for RTCR [X] *Check here if this section does not apply to this system*

Contaminant Name	TT Violation Y or N	TT Requirement
Total Coliform		We were required to conduct an assessment of our system due to one of the following: • More than 5.0% positive samples per period (if the number of samples are greater than or equal to 40) • OR More than 1 positive sample per period (if the number of samples are less than 40) • OR Repeat samples not collected after positive sample.

Please share this information with other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.